

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-49 (Canceled)

Claim 50 (Original): A system for measuring physiological parameters in the body of a patient indicative of gastroesophageal reflux, the system comprising:

a plurality of sensors adapted to be implanted in the body of the patient, wherein the plurality of sensors periodically measure a physiological parameter indicative of gastroesophageal reflux and wherein the plurality of sensors periodically transmit a signal indicative of the physiological parameter indicative of gastroesophageal reflux and wherein each signal includes an identifier indicative of the sensor from which each signal is sent; and
a receiver that receives the signals from the plurality of transmitters and records the signals.

Claim 51 (Original): The system of Claim 50, wherein each of the plurality of sensors includes a pH monitor and an RF transmitter.

Claim 52 (Original): The system of Claim 51, wherein each sensor also includes a microprocessor that periodically receives a signal from the pH monitor and induces the RF transmitter to periodically send an RF signal indicative of the pH measured by the pH monitor.

Claim 53 (Original): The system of Claim 52, wherein the microprocessor periodically enables the pH monitor during a first interval of each measurement cycle to obtain the pH signal and then disables the pH monitor during a second interval.

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Claim 54 (Original): The system of Claim 53, wherein the microprocessor enables the RF transmitter during the second interval and disables the RF transmitter during periods of each cycle other than the second interval and disables the pH monitor during periods of each cycle other than the first interval.